PROVINCE OF BRITISH COLUMBIA

MINISTRY OF HEALTH

REPORT ON

DAY CARE SURGERY

1985 / 1986

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FOREWORD

The purpose of this report is to present in a statistical form, details of the day care surgery program in British Columbia. The data presented has been derived from the statistical information received from the national service bureaus performing medical record abstracting for the hospitals in British Columbia.

Although the formats and content of the tables are similar to those of past reports, the number and order of the tables have changed. Therefore, care should be taken when comparing this report to those of previous years.

This report is expanded from prior years to include charts, graphs and tables which illustrate day care surgery utilization over time and highlight emerging trends. Throughout the report we have maintained an objective overview of the data and have not made policy or procedural recommendations.

I wish to acknowledge the significant efforts put forward by William Selwood, Senior Research Officer and Linda Gee, Research Officer, in the preparation of this report.

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Director, Information Resources
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INTRODUCTION

The purpose of this report is to analyse the 1985/86 experience of the Day Care Surgery program in British Columbia, show the types of procedures being performed, document the growth of day care surgery over the past few years and highlight emerging trends. For comparative purposes, this report should be reviewed with the report on the 1984/85 experience. Reports prior to 1979/80 employed the ICD - 8th Revision. Thus, when comparisons are made with the 8th Revision, some caution should be used as a result of the change in the code structure and classification.

At the time the decision was made for provision of day care surgical services under the British Columbia Hospital Insurance Act, there was considerable discussion as to the type of case that would be suitable for coverage and the method of defining acceptable cases and procedures. Serious consideration was originally given to the development of a list of procedures and diagnoses which would be eligible. However, it was felt that such a list would be subject to constant amendment, revision and additions, and hospital clerical personnel would have continuing difficulties interpreting admitting diagnoses and types of procedures against the background of a constantly changing eligible list.

It was therefore decided that a broad general definition of what was intended for coverage was a superior method of dealing with the problem.

The definition is based primarily on the assumption that day care surgical services are a compact form of inpatient care, requiring the full services of an operating room suite and as such, deserve the same quality control considerations provided to inpatients. The attending physicians in the hospitals are expected to provide a complete medical record for a day care admission, and these records are subject to the usual review taken by the hospital's Medical Utilization Committee to establish quality control, and assist in assessing proper utilization of the program.

Day care surgical services can be divided into four main groups as follows:

- The primary group of cases are those elective or nonelective diagnostic and/or treatment procedures requiring the use of hospital facilities and a general anaesthetic;

- A second group of cases are those procedures which would normally be carried out under general anaesthesia, but where the attending physician has elected to use local anaesthesia. It is recognized that many physicians are highly proficient in operating under these conditions, and such procedures as repair of hernia, breast biopsy, closed reduction of fractures, etc., while normally performed under a general anaesthetic, are acceptable procedures when performed under local anaesthesia;

- A third group of acceptable cases are endoscopic procedures carried out under either local or general anaesthesia. It is felt that hospital facilities are required for cystoscopy, bronchoscopy, esophagoscopy, gastroscopy, etc. Sigmoidoscopy does not normally require complete hospital facilities and is usually performed as a simple office or hospital outpatient procedure, but there may be exceptions;

- A fourth group of acceptable procedures are those related to certain cosmetic and plastic surgical procedures which may be carried out under a local anaesthetic. While it is not felt that such simple procedures as excision of cysts, removal of warts, toenails, etc., should be removed from their present "minor surgery" classification, it is recognized that certain plastic surgical, ophthalmological, and other procedures on the face do require a degree of care and attention which may call for full operating room and other hospital facilities.

SECTION I

OVERVIEW OF DAY CARE SURGERY IN BRITISH COLUMBIA

Day care surgical services have been provided as a benefit under the British Columbia Hospital Insurance Act since February, 1968. During that initial year of operation, 13,450 procedures were carried out under the program. As indicated below, the number of reported procedures carried out annually has increased significantly over the past nine years.

Year	Number of Procedures
1977	76,180
1978	82,369
1979/80	90,120
1980/81	97,085
1981/82	105,944
1982/83	116,958
1983/84	122,244
1984/85	129,636
1985/86	145,409

Figure 1 shows the incidence of day care surgical procedures per 1,000 population.

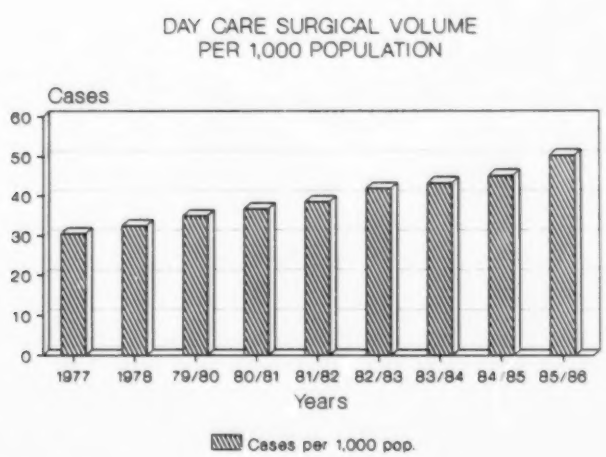

Figure 1

A further analysis of the incidence of day care procedures by age group for the years 1979/80, 1981/82, 1983/84 and 1985/86 indicates that the bulk of this increase has occurred in the 45-69 and the over 70 age groups. This is illustrated in Figure 2. The incidence per thousand population for the over 70 age group has grown from 26.49 in 1979/80 to 71.9 in 1985/86. The incidence for the 45-69 age group has grown from 36.49 to 61.86 over the same period.

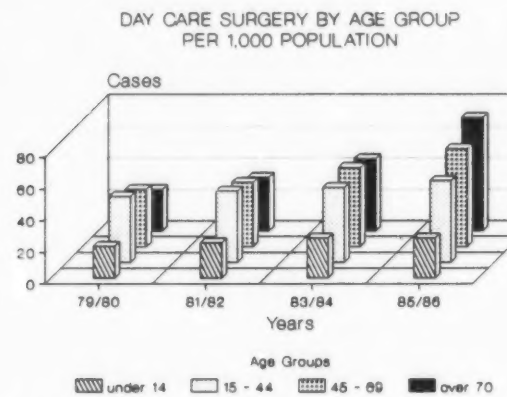

Figure 2

The total day care surgical case load rose from 129,636 in 1984/85 to 145,409 in 1985/86, an increase of 12.2%. During the same period, the total acute care hospital inpatient surgical load (primary procedures only) was 314,051 cases, down from 322,637, a drop of 2.7%. In total then, the 1985/86 day care load represented 31.6% of the total surgical load. The relationship between the total inpatient and day care surgical load over time is illustrated in Figure 3.

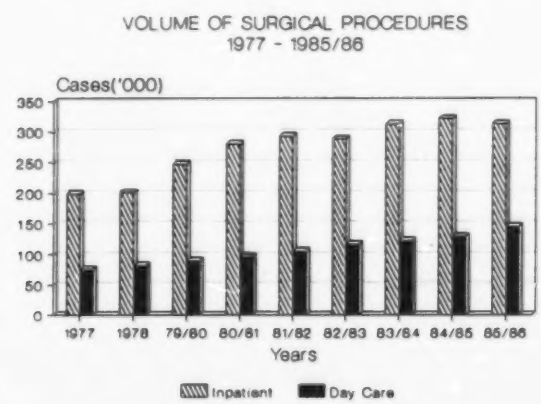

Figure 3

SECTION II

DAY CARE SURGICAL VOLUMES FOR SPECIFIC HOSPITALS

An analysis of the 1985/86 hospital specific workload by operation group is shown in Table 1. The operation groupings are based on the Canadian Classification of Diagnostic, Therapeutic, and Surgical Procedures used in conjunction with the ICD-9 (See Appendix A for definitions of the groupings). While these groupings indicate the general areas of surgery, they do not indicate the specific procedures performed. Figures 4A and 4B below compare the distribution among these operation groupings between fiscal years 1981/83 and 1985/86. Although, as expected, most groupings showed an increase, day care volumes for the following groupings have more than doubled over the five year period:

Operation Group	Code
Operations on the Nervous System	14-18
Operations on the Eyes	21-29
Operations on the Respiratory System	42-46
Operations on the Digestive System	54-66
Operations on the Breast	97

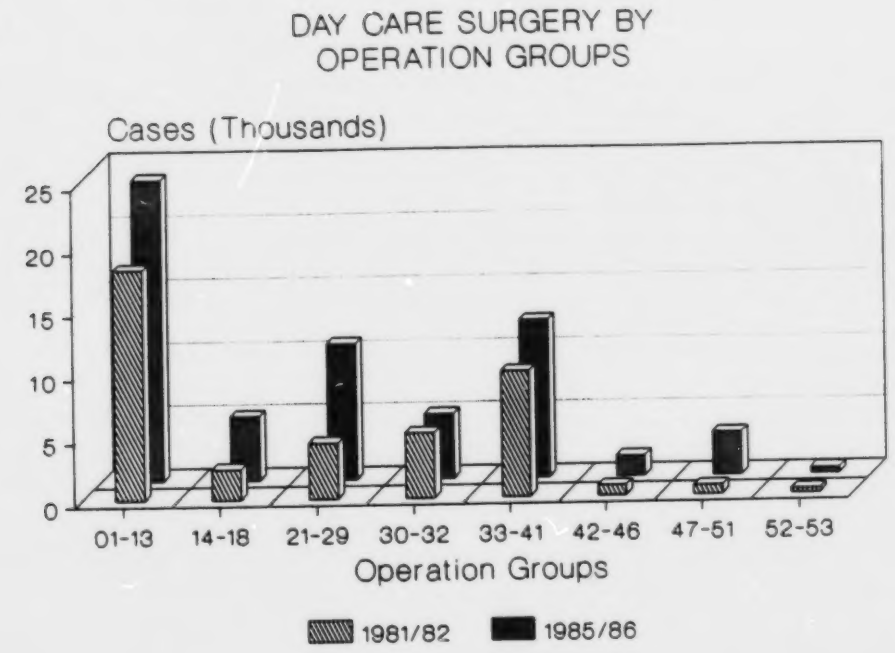

Figure 4A

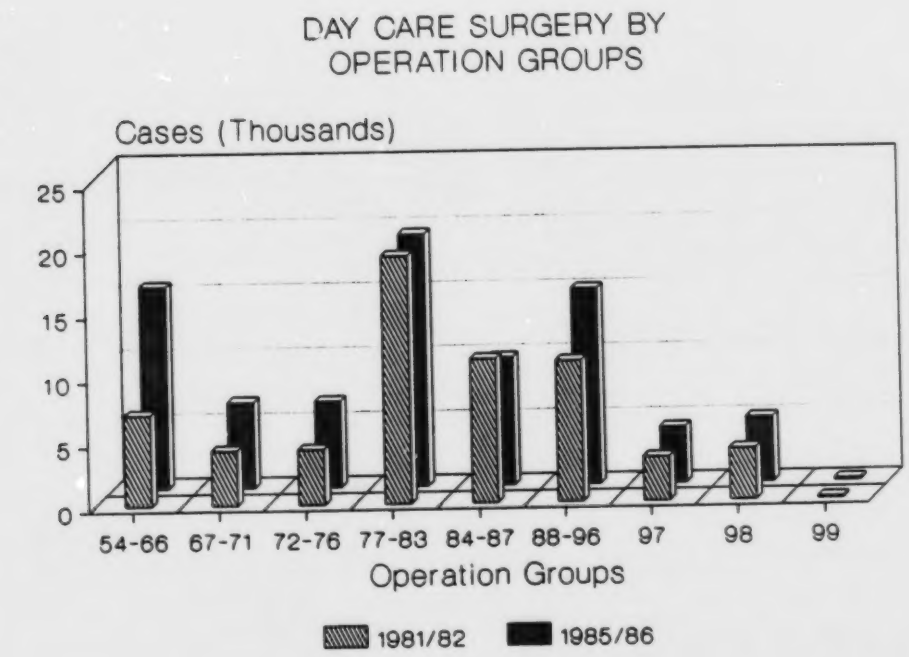

Figure 4B

TABLE 1

DAY CARE SURGICAL CASES
BY HOSPITAL AND OPERATION GROUP
1985/86

HOSP CODE	TOTAL	OPERATION GROUPS 01-13	14-18	19-20	21-29	30-32	33-41	42-46	47-51	52-53	54-66	67-71	72-76	77-83	84-87	88-96	97	98	99
101	16,807	1,169	151	1	3,168	13	946	298	711	13	1,500	1,182	522	1,880	4,352	636	76	137	52
102	5,772	1,399	101	1	897	18	76	27	130	26	1,505	414	100	446		271	216	125	20
103	2,230	300	28		284	53	217	14	31	11	165	201	123	269	1	177	243	113	
105	5,239	892	7		455	758	1,828	17	62	15	362	54	384	4		228	2	171	
106	2,081	199	13		193	60	201	19	3	12	246	207	76	513	1	145	94	94	5
107	243	83					6	13	6	25		2				2	103	3	
109	5,963	1,170	265		59	112	121	275	434	14	919	372	331	838	381	256	135	270	11
110	3,344	290	68		1,033	312	514	81	31	8	63	51	17	128		429	66	251	2
111	427	36	3		19	14	29		3	4	34	51	15	120	2	55	16	26	
112	6,826	738	179		215	257	271	70	14	29	1,034	521	210	1,100	548	1,245	259	126	10
113	375	111	19			1	4		1		49	13	39	85	19	18	5	11	
115	1,390	452	19		47	36	11	3	6	4	186	18	27	303	4	155	66	50	3
116	5,340	785	145		210	273	317	21	30	14	352	75	344	1,017	201	825	265	466	
121	3,109	339	42	2	205	16	37	30	6	8	145	158	315	549	296	466	183	312	
123	1,781	360	3		207		16	8	38	5	470	107	57	58		206	204	40	2
125	5,121	735	650	2	18	5	152	10	59	10	1,219	222	47	732	941	239	36	34	10
128	96		4				19				5		1	36		16	6	9	
130	3,088	470	72		209	46	72	26	5	9	349	67	112	582	398	396	126	149	
131	2,497	494	964		171	4	75		7	6	137	54	87	250	51	104	55	38	
134	888	181	10		15	11	63	15	3	1	73	47	74	132		106	61	93	3
136	2,256	168	96		62	55	334		4	2	75	194	212	272		416	68	298	
201	4,944	1,142	135	2	586	14	434	95	56	20	120	296	241	592	430	537	93	151	
202	8,481	1,836	117	1	522	651	1,069	64	33	22	1,056	309	356	923	91	822	253	356	
203	1,880	446	85		7	117	226	4	1	8	157	17	101	333		272	63	43	
206	70	9	2				11				1	3	9	10	8	2	11	3	1
217	652	141	13		52	34	60	7	1	5	53	15	50	126	23	36	17	19	
301	2,409	608	51		60	153	177	20	1	6	240	102	104	307	129	365	46	40	
302	5,271	383	164	2	334	93	177	80	7	19	1,517	452	199	911	12	621	143	157	
303	2,419	441	63		60	126	296	50	7	15	280	106	158	342	122	240	70	42	1
305	81	8	1		3		5				1	1	11	30		11	5	5	
306	47		1				4					1	5	12		15	5	4	
307	40	1	7				7				1		7	11		1	4	1	

TABLE 1

DAY CARE SURGICAL CASES
BY HOSPITAL AND OPERATION GROUP
1985/86

HOSP CODE	TOTAL	OPERATION GROUPS 01-13	14-18	19-20	21-29	30-32	33-41	42-46	47-51	52-53	54-66	67-71	72-76	77-83	84-87	88-96	97	98	99
308	142	3	10				44				2		18	42		13	8	2	
309	158	7	25			1	20	2		1	3		31	32		24	4	8	
401	7,899	1,192	478	1	143	165	784	36	1,487	13	530	341	261	966	315	858	167	162	
402	121	6	6				6				3		7	54	8	23	5	2	1
403	213	9	14				3			1	12	2	19	98		42	7	6	
404	468	102	41			6	30			1	39	13	51	96	28	31	16	14	
406	1,047	204	25		34	27	97	7	3	6	87	2	73	206	71	99	36	70	
408	33	3	1				16							8			2	3	
409	67	2					1	1				1	3	38	16	1	3	1	
417	14	2			1								9			2			
501	4,769	664	122		631	215	421	69	26	13	350	185	160	524	354	839	84	106	6
502	1,200	232	30		90	27	209	6	1	4	101	53	41	194		140	42	27	3
504	1,461	192				107	605	7		1	162	5	30	179	166	2		4	1
505	198	11	9				6		1	1	3	7	13	14		130	2	1	
506	819	202	41		43	18	145	1	1		15	25	72	21		121	63	49	2
507	6									5				1					
508	1,918	122	136		8	158	156	42			179	3	114	263	115	500	51	61	10
510	32												32						
511	12												12						
601	2,622	394	89		250	124	222	14	75	7	246	95	144	341	2	424	66	125	4
602	944	254	23		3	55	130	5	2	6	61	40	40	173	6	83	34	22	7
603	3,658	1,233	90	2	44	164	217	16	9	14	358	178	258	582	5	309	91	88	
604	905	206	22		43	41	20	1	8	2	57	34	91	184	53	87	20	33	3
606	46	3	1				6							21		10	1	3	1
651	872	326	19	1	10		154	1	2	1	88	2	71	48	39	53	21	35	1
654	114	56					2				3		12	23	3	9	5	1	
701	358	25	19		6	21	78	2		4	4		10	34	61	65	16	13	
702	93	1	3				6				1		26	32		17	5	2	
703	4,450	885	134	2	96	288	372	84	49	24	375	133	183	732	226	481	262	124	
704	725	122	11		8	27	71	3	1	2	90	5	15	157	86	72	31	24	
705	1,085	325	18		2	30	113	3	1	4	97	76	74	127	63	64	52	36	
707	34	15	1										8	4		3	2	1	

TABLE 1

DAY CARE SURGICAL CASES
BY HOSPITAL AND OPERATION GROUP
1985/86

HOSP CODE	TOTAL	OPERATION GROUPS																	
		01-13	14-18	19-20	21-29	30-32	33-41	42-46	47-51	52-53	54-66	67-71	72-76	77-83	84-87	88-96	97	98	99
708	105		7				43						4	30		12	7	2	
713	13	1	1				1						2	4		4			
714	114	2			4	3	20	1			5		18	37		7	4	13	
715	56					1	18						14	20			1	2	
717	4	2												1				1	
752	128	25	6			1	17			1	15	3	1	35	1	17	3	3	
753	73	39	3				2						2	11		9	2	5	
754	91	4					4			3	2		10	36		17	8	7	
755	73		7				2			1		1	13	29		11	6	3	
756	1,470	410	46		28	83	118	8	2	4	152	36	48	203	41	180	58	53	
801	1,099	243	33		41	69	38	24	4	5	94	30	5	214	34	184	19	62	
802	425	3	1				3				1			6		410		1	
803	123	9	2	1			5			1	2		3	44	13	28	3	11	1
804	218	11	3		1		18				4		7	103	42	14	11	4	
851	1,136	213	28		114	85	179	1		6	17	3	127	132	43	72	40	75	1
854	8						1						6	1					
901	33	9	1		2	6	2			1	1		2	2		6		1	
902	856	114	21		15	73	74	9		2	34	20	70	158	69	148	27	22	
903	631	216	29			2	52			1	55	2	57	131	1	46	12	11	16
906	14	2											8	1		2		1	
907	19												9	1				9	
909	27									1			4	2		2	2	16	
912	610	186	11		5	21	26		1	1	72	7	26	145		83	8	18	
917	433	85	3	1	3	10	41	2		1	9	35	36	83		69	17	37	1
TOTAL	145,409	23,758	5,048	19	10,716	5,060	12,373	1,592	3,363	449	15,643	6,649	6,684	19,534	9,871	15,136	4,319	5,017	178

Table 2 shows the total number of day care surgical procedures performed at each acute care hospital, together with the number of operations performed on inpatients (based on primary operations only) and relates the day care surgery to the total surgical volume of the hospital. As previously mentioned, 31.6% of all surgery was performed on a day care basis in 1985/86. However, when we look at only those hospitals where the total surgery load was greater than 10,000 cases, day care surgery accounted for 33.8% of the total load. Looking at only those hospitals where the total surgery load was less than 10,000 cases, day care surgery represented 28.7% of the total. In addition to hospital size, another factor which tended to raise the level of day care surgery performed at individual hospitals included the provision of specialized services (i.e., eye care at Vancouver General Hospital and St. Mary's Hospital, New Westminster).

TABLE 2

VOLUME OF DAY CARE AND INPATIENT SURGERY (PRIMARY PROCEDURES ONLY)
PERFORMED IN ACUTE CARE HOSPITALS
1985/86

HOSPITAL CODE	NAME	DAY CARE SURGICAL	INPATIENT SURGICAL	TOTAL SURGICAL	% DAY CARE
101	Vancouver General	16,807	24,558	41,365	40.6
102	St. Paul's	5,772	15,314	21,086	27.4
103	St. Vincent's	2,230	3,057	5,287	42.2
104	The Salvation Army Grace		8,483	8,483	0.0
105	Children's	5,239	5,463	10,702	49.0
106	Mount Saint Joseph	2,081	3,784	5,865	35.5
107	A. Maxwell Evans Clinic	243	2,994	3,237	7.5
109	Royal Columbian	5,963	14,648	20,611	28.9
110	Saint Mary's	3,344	6,109	9,453	35.4
111	Powell River General	427	1,738	2,165	19.7
112	Lions Gate	6,826	11,294	18,120	37.7
113	St. Mary's	375	1,830	2,205	17.0
115	Langley Memorial	1,390	5,346	6,736	20.6
116	Surrey Memorial	5,340	11,674	17,014	31.4
121	Richmond General	3,109	6,061	9,170	33.9
123	UBC Health Sciences Centre	1,781	7,479	9,260	19.2
125	Shaughnessy	5,121	10,641	15,762	32.5
128	Squamish General	96	487	583	16.5
130	Burnaby Hospital	3,088	10,200	13,288	23.2
131	Peace Arch District	2,497	3,184	5,681	44.0
134	Delta Hospital	888	1,883	2,771	32.0
136	Eagle Ridge	2,256	1,379	3,635	62.1
201	Royal Jubilee	4,944	17,468	22,412	22.1
202	Victoria General	8,481	17,023	25,504	33.3
203	Cowichan District	1,880	3,381	5,261	35.7
206	Lady Minto Gulf Islands	70	401	471	14.9
217	Saanich Peninsula	652	2,374	3,026	21.5
301	Vernon Jubilee	2,409	4,515	6,924	34.8
302	Kelowna General	5,271	10,632	15,903	33.1
303	Penticton Regional	2,419	5,701	8,120	29.8
305	Princeton General	81	408	489	16.6
306	Enderby and District Memorial	47	135	182	25.8
307	Armstrong and Spallumcheen	40	81	121	33.1
308	Summerland General	142	583	725	19.6
309	South Okanagan General	158	701	859	18.4
401	Royal Inland	7,899	10,466	18,365	43.0
402	Queen Victoria	121	733	854	14.2
403	Nicola Valley General	213	840	1,053	20.2
404	Shuswap Lake General	468	1,474	1,942	24.1
405	St. Bartholomew's		27	27	0.0
406	Cariboo Memorial	1,047	2,222	3,269	32.0
408	Ashcroft and District General	33	263	296	11.1
409	Golden and District	67	400	467	14.3
417	Lillooet District	14	373	387	3.6
419	Dr. Helmcken Memorial		273	273	0.0
501	Nanaimo Regional General	4,769	6,880	11,649	40.9
502	St. Joseph's General	1,200	3,763	4,963	24.2

TABLE 2

VOLUME OF DAY CARE AND INPATIENT SURGERY (PRIMARY PROCEDURES ONLY)
PERFORMED IN ACUTE CARE HOSPITALS
1985/86

HOSPITAL CODE	HOSPITAL NAME	DAY CARE SURGICAL	INPATIENT SURGICAL	TOTAL SURGICAL	% DAY CARE
504	Cumberland Health Care Facility *	1,461		1,461	100.0
505	Chemainus General	198	121	319	62.1
506	Ladysmith and District General	819	630	1,449	56.5
507	St. George's	1	318	319	0.3
508	Campbell River and District General	1,923	3,076	4,999	38.5
510	Port Hardy	32	77	109	29.4
511	Port McNeill and District	12	100	112	10.7
601	Chilliwack General	2,622	4,429	7,051	37.2
602	Mission Memorial	944	2,544	3,488	27.1
603	Matsqui-Sumas-Abbotsford General	3,658	5,981	9,639	37.9
604	Maple Ridge	905	3,119	4,024	22.5
606	Fraser Canyon	46	403	449	10.2
651	Kootenay Lake District	872	2,443	3,315	26.3
652	Slocan Community		33	33	0.0
653	Victorian		23	23	0.0
654	Creston Valley	114	1,140	1,254	9.1
655	Arrow Lakes		387	387	0.0
701	Fort St. John General	358	2,069	2,427	14.8
702	St. John	93	673	766	12.1
703	Prince George Regional	4,450	9,979	14,429	30.8
704	Dawson Creek and District	725	3,079	3,804	19.1
705	G.R. Baker Memorial	1,085	2,008	3,093	35.1
707	Burns Lake and District	34	183	217	15.7
708	100 Mile District General	105	605	710	14.8
713	McBride and District	13	134	147	8.8
714	Fort Nelson General	114	441	555	20.5
715	Mackenzie and District	56	249	305	18.4
716	Chetwynd General		629	629	0.0
717	Stuart Lake	4	36	40	10.0
752	Kimberley and District	128	588	716	17.9
753	Fernie District	73	1,030	1,103	6.6
754	Sparwood General	91	640	731	12.4
755	Windermere District	73	267	340	21.5
756	Cranbrook and District	1,470	2,803	4,273	34.4
801	Trail Regional	1,099	3,426	4,525	24.3
802	The Mater Misericordiae	425	190	615	69.1
803	Boundary	123	718	841	14.6
804	Castlegar and District	218	809	1,027	21.2
851	West Coast General	1,136	1,448	2,584	44.0
854	Tofino General	8	133	141	5.7
858	C.F. Station Hospital, Holberg		3	3	0.0
859	Port Alice		35	35	0.0
861	Tahsis		25	25	0.0
901	Wrinch Memorial	33	370	403	8.2
902	Prince Rupert Regional	856	2,023	2,879	29.7
903	Bulkley Valley District	631	1,342	1,973	32.0
904	R.W. Large Memorial		168	168	0.0

TABLE 2

VOLUME OF DAY CARE AND INPATIENT SURGERY (PRIMARY PROCEDURES ONLY)
PERFORMED IN ACUTE CARE HOSPITALS
1985/86

CODE	HOSPITAL NAME	DAY CARE SURGICAL	INPATIENT SURGICAL	TOTAL SURGICAL	% DAY CARE
906	Bella Coola General	14	179	193	7.3
907	Queen Charlotte Islands General	19	170	189	10.1
909	Houston Health & Human Resources Centre	27		27	100.0
910	Stewart General		25	25	0.0
912	Mills Memorial	610	2,454	3,064	19.9
916	Cassiar		32	32	0.0
917	Kitimat General	433	1,448	1,881	23.0
918	C.F. Station Hospital, Masset		92	92	0.0
	TOTAL	145,409	314,050	459,459	31.6

* Diagnostic and Treatment Centre

SECTION III

DAY CARE SURGICAL VOLUMES FOR SPECIFIC PROCEDURES

In order to analyse the work volume by specific procedure, it is necessary to use the full four-digit operation code. This, however, has the disadvantage of being an extremely lengthy breakdown. From an analysis of this data, it was possible to prepare a list of the most common procedures carried out in all hospitals in the Province during 1985/86 under the day care program. These are shown in Table 3. In order to minimize the number of codes and give a better understanding of the work volume, a few closely related codes were grouped for convenience, but for the most part, the figures in Table 3 do relate to specific procedures. As Table 3 does relate to the twenty-five most common procedures for the year, specific procedures shown on the table may vary from year to year. Therefore, caution should be exercised when comparing this report to those of previous years.

In 1985/86, the total work load represented by the twenty-five most common procedures was 103,140 cases. The table then, gives a fairly good picture of the type of work being carried out on the day care program. However, it should be noted that as total day care volume has increased, so has the variety of procedures being performed on a day care basis. The proportion of the total work load represented by the twenty-five most common procedures has decreased over time. In 1977, the twenty-five most common procedures amounted to 81.3% of the total work load. In 1985/86, the twenty-five most common procedures represented 70.9% of the total day care surgical load. A further analysis of the procedures listed in Table 3 shows that the top five procedures as ranked by day care volume:

- cystoscopy and urethroscopy;
- diagnostic dilation and curettage;
- therapeutic abortion;
- removal and restoration of teeth; and
- nonoperative endoscopy of respiratory and upper gastro-intestinal tract;

have remained unchanged over time. However, these five procedures which represented 49.4% of the total day care volume in 1977, accounted for only 32.9% of the total day care volume in 1985/86.

TABLE 3

THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES
BOTH SINGLE AND GROUPED
1985/86

	ICD-9 CODE	PROCEDURE	CASES 1985/86	CASES 1984/85
1.	01.33 - 01.35, 67.85 - 67.87	cystoscopy and urethroscopy, with and without retrograde pyelogram	12,325	10,075
2.	79.00, 79.10, 79.21, 79.22, 79.23, 79.29, 79.30, 80.11, 80.12, 80.19, 81.09	diagnostic dilation and curettage	10,618	9,643
3.	86.41, 86.42. 86.49, 87.00, 87.10, 87.21, 87.29	therapeutic abortion	9,852	9,726
4.	35	removal of teeth	7,981	7,507
5.	01.02 - 01.09, 01.11 - 01.16	nonoperative endoscopy of respiratory and upper gastrointestinal tract	7,091	6,766
6.	56.81, 56.82, 57.91 - 57.95	biopsy of stomach and intestines	5,313	4,265
7.	78.21, 78.22,78.31, 78.32, 78.39, 78.41, 78.42, 78.49, 78.53, 78.59	destruction or occlusion of fallopian tubes	5,102	5,004
8.	32.01, 32.09, 32.10	myringotomy; removal of tympanostomy tube	4,262	4,529
9.	97.11, 97.82	local excision or biopsy of lesion of breast	3,608	3,185
10.	98.11, 98.12	removal of lesion of skin and subcutaneous tissue	3,371	2,874
11.	66.83	laproscopy	3,259	2,918
12.	01.22	other nonoperative colonscopy	3,242	1,940
13.	75.64	vasectomy	3,045	2,870
14.	70.10, 70.50	urethral meatotomy, dilation of urethra	2,852	2,545
15.	28.53 - 28.55	excision or destruction of lesion of retina, by photocoagulation	2,685	2,378
16.	92.32	excision of semilunar cartilage of knee	2,621	2,099

TABLE 3

THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES
BOTH SINGLE AND GROUPED
1985/86

	ICD-9 CODE	PROCEDURE	CASES 1985/86	CASES 1984/85
17.	33.21 - 33.23. 33.30, 33.40, 33.51, 33.52, 33.59, 33.61, 33.62, 33.71 - 33.77, 33.79, 33.91, 33.99, 34.00, 34.10, 34.21, 34.29, 34.31, 34.32, 34.41 - 34.44, 34.51 - 34.53	operations on nose and accessory sinuses	2,595	2,176
18.	94.21, 95.21, 95.22, 95.29	excision of lesion of muscle, tendon and fascia	1,984	2,159
19.	17.33	release of carpal tunnel	1,875	1,591
20.	11.88, 11.89, 90.60 - 90.69	removal of internal and external fixation device	1,818	1,701
21.	16.91, 16.92	injection of agent into spinal canal	1,767	1,442
22.	92.85	arthroscopy of knee	1,672	1,570
23.	27.51, 27.59	extracapsular extraction of lens	1,572	937
24.	81.01	dilation and curettage following delivery or abortion	1,374	1,324
25.	50.80 - 50.89	selective angiography using contrast material	1,256	1,401
		TOTAL	103,140	92,625
		Percentage of total day care surgical load	70.9	71.5

In Table 4, the volume of day care surgery is compared with that currently being performed on an inpatient basis. For each of the twenty-five most common day care procedures, the table shows the corresponding volume of inpatient primary surgical procedures and the proportion of the total load which is done as a day care service. In 1985/86, the percentage done on a day care basis has increased for twenty-four of the twenty-five procedures. Looking at all procedures shown in the table, the day care proportion amounted to 69.7%.

TABLE 4

THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES
AND CORRESPONDING INPATIENT SURGICAL PROCEDURES (PRIMARY ONLY)
PERFORMED IN ACUTE CARE HOSPITALS
1985/86

ICD-9 CODE	DAY CARE	INPATIENT	TOTAL	% DAY CARE 1985/86	% DAY CARE 1984/85
1. 01.33 - 01.35, 67.85 - 67.87	12,325	6,968	19,293	63.9	54.9
2. 79.00, 79.10, 79.21, 79.22, 79.23, 79.29, 79.30, 80.11, 80.12, 80.19, 81.09	10,618	3,123	13,741	77.3	72.8
3. 86.41, 86.42. 86.49, 87.00, 87.10, 87.21, 87.29	9,852	1,341	11,193	88.0	84.0
4. 35	7,981	1,372	9,353	85.3	80.5
5. 01.02 - 01.09, 01.11 - 01.16	7,091	3,627	10,718	66.2	65.9
6. 56.81, 56.82, 57.91 - 57.95	5,313	2,034	7,347	72.3	69.2
7. 78.21, 78.22,78.31, 78.32, 78.39, 78.41, 78.42, 78.49, 78.53, 78.59	5,102	1,627	6,729	75.8	71.9
8. 32.01, 32.09, 32.10	4,262	387	4,649	91.7	89.6
9. 97.11, 97.82	3,608	1,017	4,625	78.0	74.9
10. 98.11, 98.12	3,371	1,796	5,167	65.2	59.4
11. 66.83	3,259	1,535	4,794	68.0	63.1
12. 01.22	3,242	1,515	4,757	68.2	57.3
13. 75.64	3,045	134	3,179	95.8	92.2
14. 70.10, 70.50	2,852	891	3,743	76.2	70.3
15. 28.53 - 28.55	2,685	286	2,971	90.4	77.3
16. 92.32	2,621	1,492	4,113	63.7	55.9

TABLE 4

THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES
AND CORRESPONDING INPATIENT SURGICAL PROCEDURES (PRIMARY ONLY)
PERFORMED IN ACUTE CARE HOSPITALS
1985/86

ICD-9 CODE	DAY CARE	INPATIENT	TOTAL	% DAY CARE 1985/86	% DAY CARE 1984/85
17. 33.21 - 33.23. 33.30, 33.40, 33.51, 33.52, 33.59, 33.61, 33.62, 33.71 - 33.77, 33.79, 33.91, 33.99, 34.00, 34.10, 34.21, 34.29, 34.31, 34.32, 34.41 - 34.44, 34.51 - 34.53	2,595	3,950	6,545	39.6	33.5
18. 94.21, 95.21, 95.22, 95.29	1,984	394	2,378	83.4	82.4
19. 17.33	1,875	460	2,335	80.3	75.3
20. 11.88, 11.89, 90.60 - 90.69	1,818	1,298	3,116	58.3	54.2
21. 16.91, 16.92	1,767	528	2,295	77.0	69.8
22. 92.85	1,672	565	2,237	74.7	67.4
23. 27.51, 27.59	1,572	3,640	5,212	30.2	21.1
24. 81.01	1,374	2,531	3,905	35.2	32.3
25. 50.80 - 50.89	1,256	2,260	3,516	35.7	37.7
TOTAL	103,140	44,771	147,911	69.7	64.9

By analyzing the volume of day care surgery over time for those procedures shown in Table 3, it was possible to highlight those procedures among the twenty-five most common which are experiencing significant growth. These are shown in Table 5. A number of procedures were found which, though relatively small in total numbers of surgical day care procedures performed, appeared to have particular potential for overall growth, or for possible further transfer from inpatient to surgical day care. These procedures are identified on Chart 1 below.

ADDITIONAL DAY CARE SURGICAL PRODEDURES
SHOWING SIGNIFICANT GROWTH
1981/82, 1983/84, 1985/86

ICD-9 CODE	PROCEDURE	CASES 1981/82	1983/84	1985/86	81/82 - 85/86 % INCREASE
27.69	other extraction of lens NEC	4	39	879	21,875
27.72	insertion of intraocular lens prosthesis with cataract extraction, one-stage	0	181	864	377 *
57.21, 57.29	local excision or destruction of lesion or tissue of large intestine	325	535	1,029	217
45.81, 45.82	biopsy of bronchus	319	645	1,001	214
72.91, 72.92	biopsy of prostate	442	663	1,290	192
22.11, 22.13	excision of lesion or tissue of eyelid	281	426	614	119
54.81	biopsy of esophagus	748	898	1,194	60

* percent increase, 1983/84 - 1985/86

CHART 1

TABLE 5

SIGNIFICANT GROWTH VOLUMES AMONG THE TWENTY-FIVE
MOST COMMON DAY CARE SURGICAL PROCEDURES
1981/82, 1983/84, 1985/86

ICD-9 CODE	PROCEDURE	CASES 1981/82	1983/84	1985/86	% INCR. 81/82-85/86
92.32	excision of semilunar cartilage of knee	474	1,686	2,621	453
16.91, 16.92	injection of agent into spinal canal	368	923	1,767	380
27.51, 27.59	extracapsular extraction of lens	0	407	1,572	286 *
01.22	other nonoperative colonscopy	878	1,651	3,242	269
70.10, 70.50	urethral meatotomy, dilation of urethra	933	1,939	2,852	206
50.80 - 50.89	selective angiography using contrast material	423	1,032	1,256	197
56.81, 56.82, 57.91 - 57.95	biopsy of stomach and intestines	2,172	3,231	5,313	145
66.83	laproscopy	1,423	2,757	3,259	129
17.33	release of carpal tunnel	1,129	1,378	1,875	66
98.11, 98.12	removal of lesion of skin and subcutaneous tissue	2,150	2,797	3,371	57
	TOTAL	9,950	17,801	27,128	173
	TOTAL DAY CARE SURGERY	105,944	122,244	145,409	37

*percent increase, 1983/84 - 1985/86

SECTION IV

DAY CARE SURGICAL VOLUMES

FOR REGIONAL HOSPITAL DISTRICTS

The number of day care surgical operations performed in acute care hospitals within each regional hospital district and the number of operations generated by the residents of each region is shown in Table 6. Comparative data is given for fiscal years 1983/84, 1984/85 and 1985/86.

Column 1 (Res) for each fiscal year relates the volume of day care surgical procedures performed for residents of each regional hospital district. This volume is expressed as the incidence per 1,000 district population.

Column 2 (Hosp) relates the volume, for each regional hospital district, of day care surgical procedures actually performed in that district's hospitals. Again, this is expressed as the volume per 1,000 district population.

For example, in 1985/86, the incidence per 1,000 district population of day care surgical procedures performed for residents of Alberni-Clayoquot Regional Hospital District was 49.3. However, the volume per 1,000 district population of day care surgical procedures actually performed in Alberni-Clayoquot Region hospitals was 35.8.

Similarly, the incidence of day care surgical procedures performed for residents of the Capital Regional Hospital District was 51.2. The volume of day care surgical procedures actually performed in the Capital Region hospitals was 53.9 per 1,000 district population.

As would be expected, those regional hospital districts experiencing a net inflow of day care patients contain hospitals which have large total surgery loads, provide specialized services, or act as natural regional referral centres.

TABLE 6

DAY CARE SURGICAL PROCEDURES (PRIMARY) PER 1,000 POPULATION
BY PATIENT'S PLACE OF RESIDENCE AND
BY REGIONAL HOSPITAL DISTRICT HOSPITAL USED, 1983/84 - 1985/86

REGIONAL HOSPITAL DISTRICT No.	Name	POPULATION ESTIMATE 1985/86	PROCEDURES PER 1,000 POPULATION 1983/84 Res	1983/84 Hosp	1984/85 Res	1984/85 Hosp	1985/86 Res	1985/86 Hosp
1	Alberni-Clayoquot	31,995	43.6	28.3	43.1	29.4	49.3	35.8
2	Bulkley-Nechako	40,134	30.9	15.4	31.8	17.7	35.3	19.7
3	Capital	262,496	37.9	40.5	30.2	31.7	51.2	53.9
4	Cariboo	61,773	42.1	30.3	44.7	30.9	49.5	36.2
5	Central Coast	3,374	23.9	4.4	19.4	4.8	24.0	4.1
6	Central Fraser Valley	130,799	44.7	33.5	48.5	34.6	54.2	38.6
7	Central Kootenay	52,784	32.6	20.6	40.4	24.5	40.1	22.8
8	Central Okanagan	89,240	48.8	54.4	50.3	57.0	53.6	59.1
9	Columbia-Shuswap	41,825	32.5	12.6	37.8	13.5	40.2	15.7
10	Comox-Strathcona	74,201	52.1	52.6	53.9	55.4	59.6	61.8
11	Cowichan Valley	54,823	53.9	44.4	55.0	44.9	61.9	52.8
12	Dewdney-Alouette	67,400	40.6	21.6	44.5	24.4	49.2	27.4
13	East Kootenay	57,576	29.2	28.7	29.5	29.7	30.9	31.9
14	Fraser-Cheam	59,907	44.5	35.9	49.5	39.7	54.8	44.5
15	Fraser-Fort George	91,059	45.7	51.6	44.0	49.9	44.2	49.6
16	Greater Vancouver	1,235,061	44.1	49.8	48.0	54.6	52.1	58.8
17	Kitimat-Stikine	42,933	26.9	24.0	29.2	25.2	30.0	25.1
18	Kootenay-Boundary	33,191	36.2	40.7	35.7	42.2	39.9	49.6
19	Mount Waddington	15,624	38.8	3.2	41.6	2.9	47.9	2.9
20	Nanaimo	83,373	51.8	57.6	54.2	60.2	54.2	57.2
21	North Okanagan	57,375	41.6	42.8	44.5	42.4	44.6	43.5
22	Okanagan-Similkameen	59,818	46.2	42.7	45.9	40.8	51.2	46.8
23	Peace River-Liard	59,380	21.9	19.4	22.4	18.8	23.3	20.2
24	Powell River	18,869	33.2	21.4	34.8	21.5	37.1	22.6
25	Skeena-Queen Charlotte	24,619	32.3	29.3	37.2	32.5	38.4	35.5
26	Squamish-Lillooet	20,663	41.7	7.6	43.1	6.1	39.3	5.3
27	Stikine	1,941	12.2	-	11.3	-	9.3	-
28	Sunshine Coast	16,753	43.4	22.9	43.1	23.1	44.5	22.4
29	Thompson-Nicola	103,508	63.4	72.5	64.8	75.0	67.9	78.7
	TOTAL	2,892,494	43.0	43.3	45.0	45.2	50.1	50.3
	Nonresidents		0.3		0.2		0.2	
	TOTAL		43.3	43.3	45.2	45.2	50.3	50.3

APPENDICES

APPENDIX A

CANADIAN CLASSIFICATION OF DIAGNOSTIC, THERAPEUTIC, AND SURGICAL PROCEDURES

Operation Group	Code
Certain Diagnostic and Therapeutic Procedures	01 - 13
Operations on the Nervous System	14 - 18
Operations on the Endocrine System	19 - 20
Operations on the Eyes	21 - 29
Operations on the Ears	30 - 32
Operations on the Nose, Mouth, and Pharynx	33 - 41
Operations on the Respiratory System	42 - 46
Operations on the Cardiovascular System	47 - 51
Operations on the Hemic and Lymphatic Systems	52 - 53
Operations on the Digestive System and Abdominal Region	54 - 66
Operations on the Urinary Tract	67 - 71
Operations on the Male Genital Organs	72 - 76
Operations on the Female Genital Organs	77 - 83
Obstetrical Procedures	84 - 87
Operations on the Musculoskeletal System	88 - 96
Operations on the Breast	97
Operations on Skin and Subcutaneous Tissue	98
Procedures Not Elsewhere Classified	99

APPENDIX B

British Columbia Acute Care Hospitals

101	Vancouver General
102	St. Paul's
103	St. Vincent's
104	The Salvation Army Grace
105	Children's
106	Mount Saint Joseph
107	A. Maxwell Evans Clinic
109	Royal Columbian
110	Saint Mary's, New Westminster
111	Powell River General
112	Lions Gate
113	St. Mary's, Sechelt
115	Langley Memorial
116	Surrey Memorial
121	Richmond General
123	UBC Health Sciences Centre
125	Shaughnessy
128	Squamish General
130	Burnaby
131	Peace Arch District
134	Delta
136	Eagle Ridge
201	Royal Jubilee
202	Victoria General
203	Cowichan District
206	Lady Minto Gulf Islands
217	Saanich Peninsula
301	Vernon Jubilee
302	Kelowna General
303	Penticton Regional
305	Princeton General
306	Enderby and District Memorial
307	Armstrong and Spallumcheen
308	Summerland General
309	South Okanagan General
401	Royal Inland
402	Queen Victoria
403	Nicola Valley General
404	Shuswap Lake General
405	St. Bartholomew's
406	Cariboo Memorial
408	Ashcroft and District General
409	Golden and District General
417	Lillooet District
419	Dr. Helmcken Memorial
501	Nanaimo Regional General
502	St. Joseph's General
504	Cumberland Health Care Facility*
505	Chemainus General
506	Ladysmith and District General
507	St. George's
508	Campbell River & District General
510	Port Hardy
511	Port McNeill and District
601	Chilliwack General
602	Mission Memorial
603	Matsqui-Sumas-Abbotsford General

* Diagnostic and Treatment Centre

British Columbia Acute Care Hospitals (continued)

604	Maple Ridge
606	Fraser Canyon
651	Kootenay Lake District
652	Slocan Community
653	Victorian
654	Creston Valley
655	Arrow Lakes
701	Fort St. John General
702	St. John
703	Prince George Regional
704	Dawson Creek and District
705	G. R. Baker Memorial
707	Burns Lake and District
708	100 Mile District General
713	McBride and District
714	Fort Nelson General
715	MacKenzie and District
716	Chetwynd General
717	Stuart Lake
752	Kimberley and District
753	Fernie District
754	Sparwood General
755	Windermere District
756	Cranbrook and District
801	Trail Regional
802	The Mater Misericordiae
803	Boundary
804	Castlegar and District
851	West Coast General
854	Tofino General
859	Port Alice
861	Tahsis
901	Wrinch Memorial
902	Prince Rupert Regional
903	Bulkley Valley District
904	R. W. Large Memorial
906	Bella Coola General
907	Queen Charlotte Islands General
909	Houston Health and Human Resources Centre*
910	Stewart General
912	Mills Memorial
916	Cassiar
917	Kitimat General

* Diagnostic and Treatment Centre